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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/826,111	06/04/2004		Michael H. Backman	00AN171 / 9857 ALBRP144USG			
7590 09/07/2004		/07/2004		EXAM	EXAMINER		
Susan M. Don	ahue		JONES, JUDSON				
Rockwell Autor	mation						
704-P, IP Depa	artment		ART UNIT	PAPER NUMBER			
1201 South 2nd			2834				
Milwaukee, WI 53204				DATE MAILED: 09/07/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application	on No.	Applicant(s)	_			
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Office Action Summary		10/826,1		BACKMAN ET AL.				
	omec Adden Gammary	Examine		Art Unit				
	The MAII INC DATE of this community	Judson H		2834				
Period fo	The MAILING DATE of this commun or Reply	nicauon appears on the	e cover sneet with the (correspondence address				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision: SIX (6) MONTHS from the mailing date of this comin period for reply specified above is less than thirty (i) period for reply is specified above, the maximum is pretor reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no ev munication. 30) days, a reply within the stat tatutory period will apply and w y will, by statute, cause the app	ent, however, may a reply be til utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) file	ed on						
	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	•—							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-16 is/are pending in the 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restri	are withdrawn from co						
Applicat	ion Papers							
9)[The specification is objected to by the	ne Examiner.						
10)⊠	10)⊠ The drawing(s) filed on <u>16 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any obje	• ,	•	• •				
11)	Replacement drawing sheet(s) including The oath or declaration is objected to			•				
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) Notic	e of References Cited (PTO-892)		4) Interview Summary					
3) 🔲 Infon	e of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Murai et al. 5,014,625 A or Shimada et al. 5,197,391 A. In claim 1, the phrase "routing system" is interpreted to mean any means for directing an object between alternate routes. "Stage" is interpreted to mean any movable object. Murai et al. discloses a routing system as shown in figure 18 where the stage 155 can move onto one of two branch paths, each path having armature windings 157. Shimada et al. discloses a routing system as shown in figure 4 where a stage 10 can move onto one of two branch paths as described in column 5 lines 47-51, each path having armature windings as described in column 2 lines 20-26.

Claims 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Murai et al. 5,014,625 A. Claim 14 is a method claim that recites the structural features of claim 1 along with a step of detecting the position of the stage. See Murai et al. column 3 lines 63-68 for the position detection means.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada et al. in view of Japanese reference JP 03007003A. Shimada et al. discloses a

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routing system where a stage can move onto one of two branch paths but does not disclose a bridge moveable between first and second positions. Japanese reference '003 discloses a bridge 50 as shown in figure 6, the bridge being movable between first and second positions to connect track 53 to either track 54 or track 55. Since Japanese reference '003 and Shimada et al. are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a bridge portion to alternately connect path portions quickly and easily.

Claims 6-9, 11-13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada et al. as modified by Japanese reference '003 in view of Laurent et al. 6,257,604 B1 and Svensson 5,845,581 A. Shimada et al. as modified by Japanese reference '003 discloses the routing system with a bridge portion but does not disclose using a linear motor to move the bridge portion. Shimada et al. only states, "... the branch track 7a or the side track 7b may be movable ..." Svensson teaches in column 10 lines 47-61 that a crank motor, driven rollers or a hydraulic cylinder can be uses to move a bridge portion for a vehicle pathway. Since Svensson and Shimada et al. as modified by Japanese reference '003 are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a hydraulic cylinder or a motor to move a bridge portion of a vehicle pathway. Laurent et al. 6,257,604 teaches that an electric motor has some advantages over a hydraulic motor in column 2 lines 46-58. Since Laurent et al. and Shimada et al. as modified by Japanese reference '003 and Svensson are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a linear motor instead of a hydraulic cylinder in order to move a

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bridge portion linearly because electronic control makes it possible to run an electric motor more rapidly and more directly than a hydraulic or pneumatic component.

In regard to claim 7, see Svensson figure 9 and column 9 lines 29-60. Since Svensson and Shimada as modified by Japanese reference '003 are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a rotatable bridge portion in place of a bridge portion where both ends of the bridge move for the purpose of reducing the size of the area needed for the bridge portion. This reduction in size is important both for a wafer transport system as taught by Shimada et al. because wafer processing is done in clean rooms which are expensive to maintain and therefore must be as small as possible and also for a monorail train as taught by Svensson because monorail trains are used in densely populated areas where real estate is expensive.

In regard to claim 8, see Laurent et al. column 2 lines 46-49.

In regard to claims 9 and 12, Japanese reference '003 figures 1a, 1b, 1c, show a plurality of armature windings on both sides of section 10a of figure 1b and then armature windings on only the outer sides of the routing system portion followed by armature windings on both sides of sections 10a and 10c. See English translation of Japanese reference '003 on page 4 from the subheading Function (8 lines from the bottom of the page) to page 5 line 2.

In regard to claims 11 and 13, see Japanese reference '003 figures 2 and 4.

In regard to claim 16, see Japanese reference '003 figure 6.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada et al. as modified by Japanese reference '003 as applied to claim 3 and further in view of

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Hirtz 5,156,092 A. Shimada et al. as modified by Japanese reference '003 discloses the routing system with a bridge portion but does not disclose branch portions at different levels. Hirtz recognizes that branch pathways can be located on different levels in column 3 lines 4-8. Since Hirtz and Shimada et al. as modified by Japanese reference '003 are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have utilized a routing system to route a stage between a main path and a branch path on a different level.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

THANH LAM
PRIMARY EXAMINER